

1.85mm-AT Series

1.85mm Coaxial Connectors IEC Standard Compliant/Fixed Attenuator



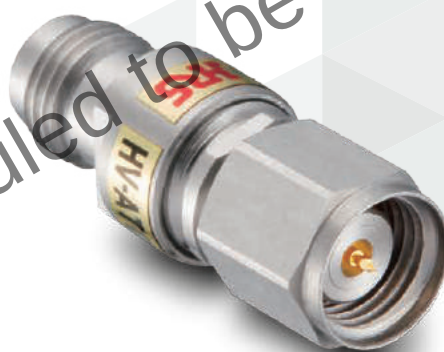
Millimeter Wave



COAX 1.85mm



Attenuator



Features

1. Fixed Attenuators Supporting
0 to 67GHz
(0, 1, 2, 3, 4, 5, 6, 7, 8,
9, 10, 20dB)
2. Small Size, Light Weight
3. Unique internal spring
connection for robustness
and excellence impedance
matching even with
temperature change.
4. Low V.S.W.R. & High
Reliability
5. IEC Standard Compliant
1.85mm Coaxial Actuator
(IEC 61169-32)

Applications

Optical transmission devices, data transmission measurement, radio communication equipment, measuring instruments, other high frequency devices, etc.

Product Specifications

Nominal Characteristic Impedance	50 Ω	Operating Temperature	-10 to +65℃
Rated Frequency	0 to 67GHz	Operating Relative Humidity	95% RH or less
Power	1W CW (+65℃)		

(Note) Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

Materials / Finish

Part	Materials	Finish
Shell	Stainless Steel	Passivated
Insulator	PTFE Resin	-
Male Contact	Brass	Gold Plated
Female Contact	Beryllium Coppoer	Gold Plated
Coupling	Stainless Steel	Passivated
Resistive Element	Metal Film	-

Product Number Structure

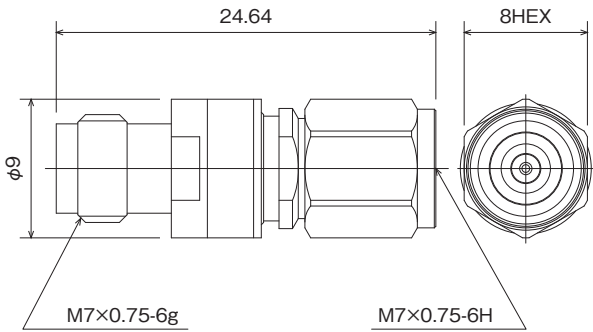
Refer to the chart below when determining the product specifications from the product number.

HV - AT (##) - PJ

① ② ③ ④

① Series Name	HV	③ Attenuation	(Ex.) (0) : 0dB (Through) (3) : 3dB (10) : 10dB
② AT	Fixed Attenuator	④ Connector Type	PJ : Plug Jack

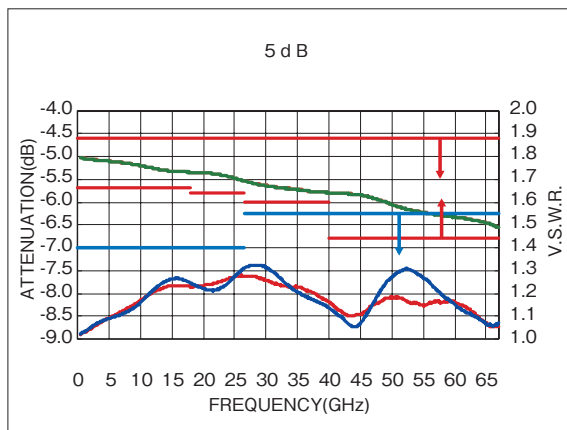
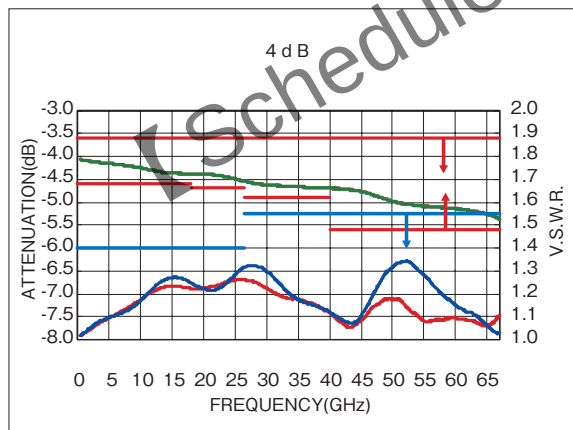
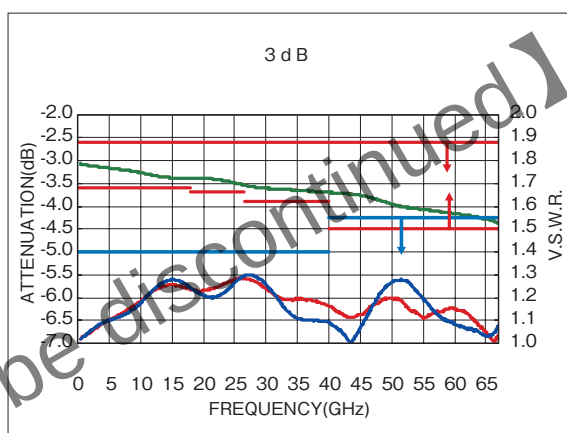
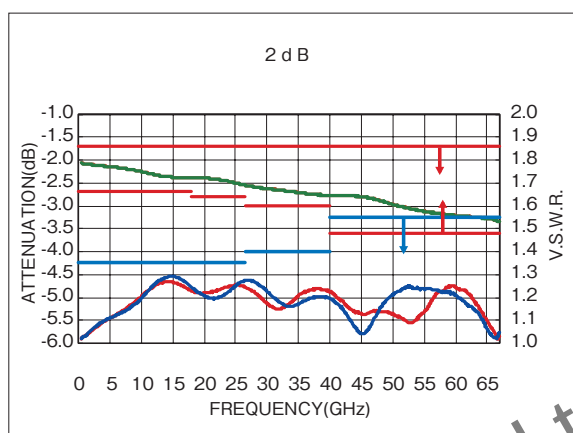
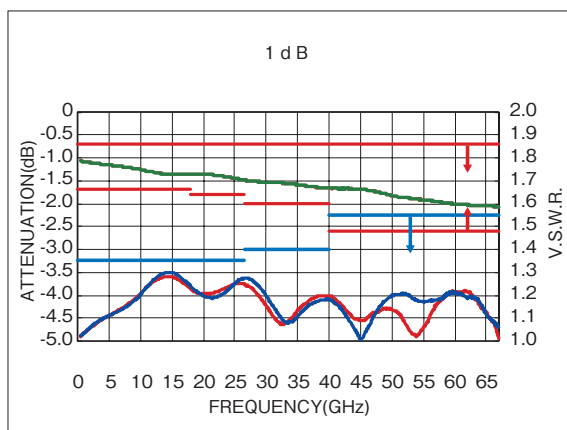
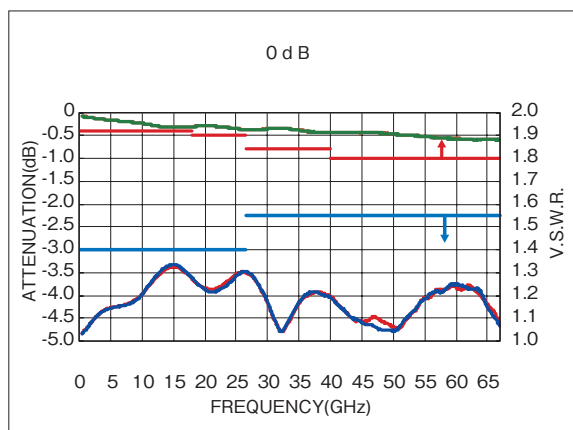
Attenuator

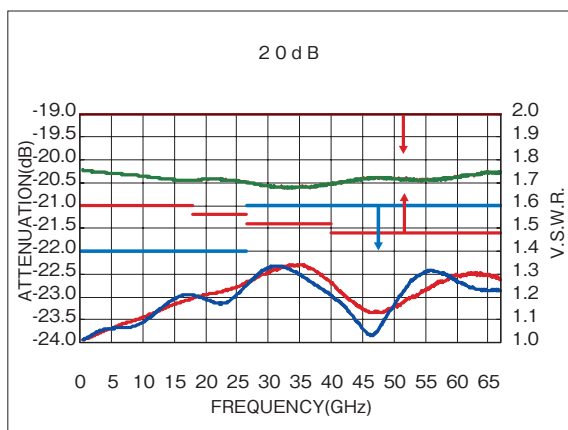
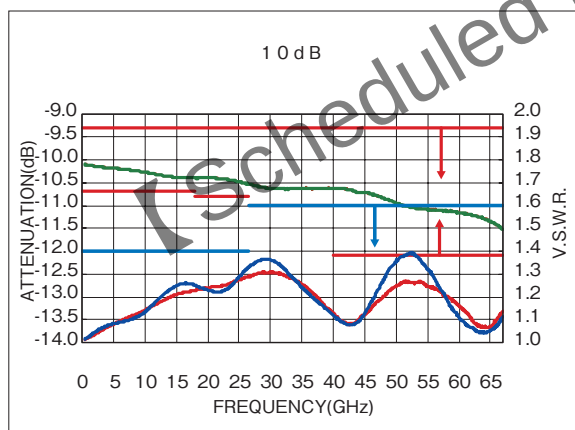
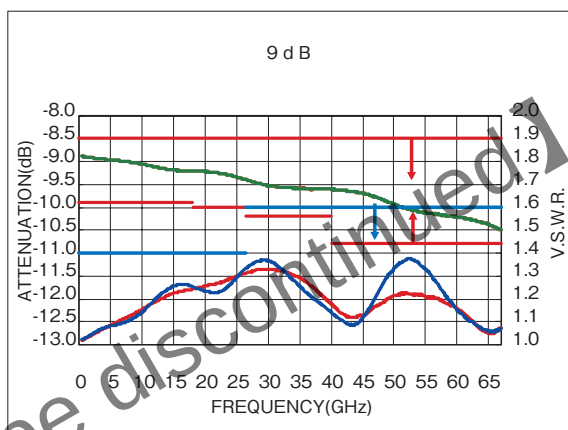
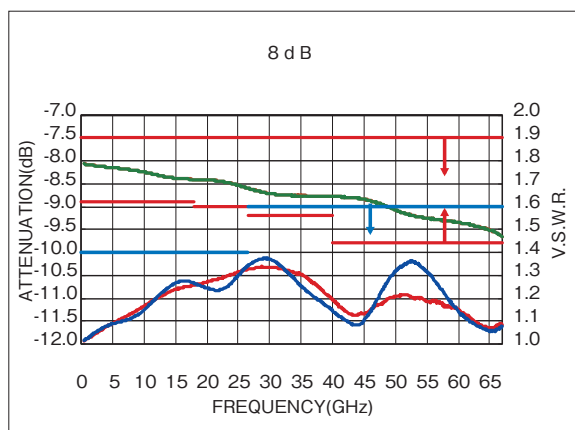
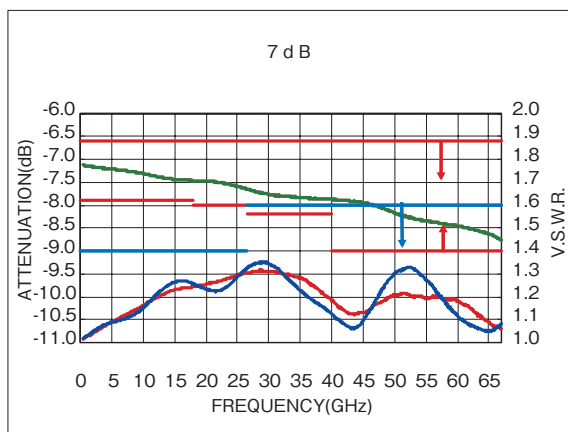
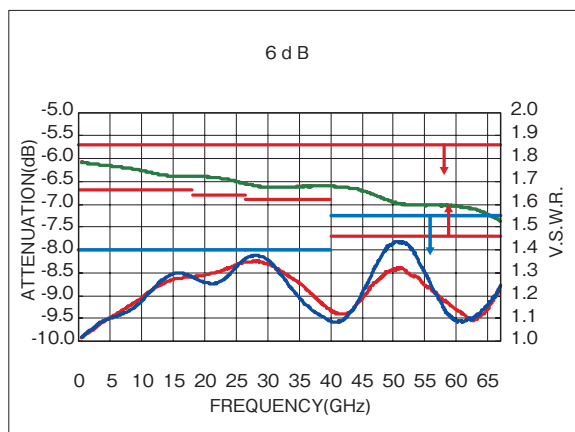


Part No.	HRS No.	Attenuation (dB)				Voltage Standing Wave Ratio (V.S.W.R.)(Max.)			
		0 to 18GHz	18 to 26.5GHz	26.5 to 40GHz	40 to 67GHz	0 to 18GHz	18 to 26.5GHz	26.5 to 40GHz	40 to 67GHz
HV-AT(0)-PJ	CL0354-0244-1-00	0 ^{+0.4} ₀	0 ^{+0.5} ₀	0 ^{+0.8} ₀	0 ^{+1.0} ₀	1.4		1.55	
HV-AT(1)-PJ	CL0354-0288-0-00	1 ^{+0.7} _{-0.3}	1 ^{+0.8} _{-0.3}	1 ^{+1.0} _{-0.3}	1 ^{+1.6} _{-0.3}	1.35	1.4		
HV-AT(2)-PJ	CL0354-0289-0-00	2 ^{+0.7} _{-0.3}	2 ^{+0.8} _{-0.3}	2 ^{+1.0} _{-0.3}	2 ^{+1.6} _{-0.3}				
HV-AT(3)-PJ	CL0354-0245-4-00	3 ^{+0.6} _{-0.4}	3 ^{+0.7} _{-0.4}	3 ^{+0.9} _{-0.4}	3 ^{+1.5} _{-0.4}	1.4			
HV-AT(4)-PJ	CL0354-0300-0-00	4 ^{+0.6} _{-0.4}	4 ^{+0.7} _{-0.4}	4 ^{+0.9} _{-0.4}	4 ^{+1.6} _{-0.4}				
HV-AT(5)-PJ	CL0354-0301-0-00	5 ^{+0.7} _{-0.4}	5 ^{+0.8} _{-0.4}	5 ^{+1.0} _{-0.4}	5 ^{+1.8} _{-0.4}				
HV-AT(6)-PJ	CL0354-0246-7-00	6 ^{+0.7} _{-0.3}	6 ^{+0.8} _{-0.3}	6 ^{+0.9} _{-0.3}	6 ^{+1.7} _{-0.3}				
HV-AT(7)-PJ	CL0354-0302-0-00	7 ^{+0.9} _{-0.4}	7 ^{+1.0} _{-0.4}	7 ^{+1.2} _{-0.4}	7 ^{+2.0} _{-0.4}	1.4		1.6	
HV-AT(8)-PJ	CL0354-0303-0-00	8 ^{+0.9} _{-0.5}	8 ^{+1.0} _{-0.5}	8 ^{+1.2} _{-0.5}	8 ^{+1.8} _{-0.5}				
HV-AT(9)-PJ	CL0354-0304-0-00	9 ^{+0.9} _{-0.5}	9 ^{+1.0} _{-0.5}	9 ^{+1.2} _{-0.5}	9 ^{+1.8} _{-0.5}				
HV-AT(10)-PJ	CL0354-0247-0-00	10±0.7	10 ^{+0.8} _{-0.7}	10 ^{+1.0} _{-0.7}	10 ^{+2.1} _{-0.7}				
HV-AT(20)-PJ	CL0354-0248-2-00	20±1.0	20 ^{+1.2} _{-1.0}	20 ^{+1.4} _{-1.0}	20 ^{+1.6} _{-1.0}				

Purchase Unit : 1pc per box

Frequency Characteristics (TYPICAL)





Precautions

1. The diameter of the center contact pin is only 0.511mm.
Please handle with care. When mating the component with the corresponding connector, rotate the hex part only.
2. If any dust is found on the shell interface when mating the components, please wipe with alcohol.

【Scheduled to be discontinued】

While Taking into Consideration

Specifications mentioned in this catalog are reference values.

When considering to order or use this product, please confirm the Drawing and Product Specifications sheets.

Use an appropriate cable when using the connector in combination with cables.

If considering usage of a non- specified cable, please contact your sales representative.

If assembly process is done by jigs & tools which are not identified by Hirose, assurance will not be given.

If considering usage for below mentioned applications, please contact your sales representative.

In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/ defense etc. Hirose must review before assurance of reliability can be given.



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